Owner's Manual & Safety Instructions

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

ITEM 69303

PACIFICHYDROSTAR®

WHOLE HOUSE
WATER PRESSURE BOOSTER PUMP
WITH STAINLESS STEEL HOUSING

Visit our website at: http://www.harborfreight.com
Email our technical support at: tech@harborfreight.com

PUMP IS NOT SUBMERSIBLE

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-800-444-3353 as soon as possible.

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No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools. Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein. Tools required for assembly and service may not be included.

⚠WARNING

Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.

Before start-up, note the following:

The pump can be connected to any shock-proof plug which has been installed according to regulations. The plug must have a supply voltage of 120 V~ at 60 Hz.

CAUTION

This pump has been evaluated for use with water only.

⚠WARNING

IMPORTANT! For your own safety – before starting to run the pump, please have the following items checked by an expert:

1. Risk of electric shock – This pump is supplied with a grounding conductor and grounding-type attachment plug. To reduce the risk of electric shock, connect only to a properly grounded, grounding-type receptacle.
2. Risk of electric shock – This pump has not been investigated for use in swimming pool areas.
3. The electrical connections must be protected from moisture.
4. If there is danger of flooding, the electrical connections must be taken to higher ground.
5. Circulation of caustic fluids, as well as the circulation of abrasive materials, must be avoided at all costs.
6. The pump must be protected from frost.
7. The pump must be protected from running dry.
8. This product is not a toy. Keep it out of reach of children. Access by children should also be prevented with appropriate measures.
9. WARNING: Handling the Power Cord on this product will expose you to lead, a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling. (California Health & Safety Code § 25249.5, *et seq.*)
10. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.
11. Do not use with swimming pools or marine areas.
12. Do not use extension cords with this Pump.
13. Do not operate Pump on earth, clay or sand surfaces.
14. Do not allow the Motor to get wet.
15. Wear non-skid rubber boots when any water is on the floor.
16. Inspect insulation regularly; do not use if insulation damaged.
17. Use indoors only.
18. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure. In addition, people with pacemakers should:
    • Properly maintain and inspect to avoid electrical shock.
    • Any power cord must be properly grounded. Ground Fault Circuit Interrupter (GFCI) should also be implemented – it prevents sustained electrical shock.
19. Secure the intake and discharge pipes (not included) to a solid surface to ensure the stability of the Pump.
20. When connecting intake and discharge pipes to Pump, use thread tape (not included) and securely fasten pipes in place.
21. Mount the Pump on a flat, level surface before use.
22. Prior to use, and periodically thereafter, check to make sure all connections are tight and secure.

Fluid Type

The Pump is designed for use with water with a maximum temperature of 77° F (25°C).
Do not use the pump for other fluids, especially not fuels, cleaning fluids, or other chemical products.

Specifications

Electrical Rating	120V~ / 60Hz / 10 A
Inlet / Outlet Diameter	1 IN. NPT
Maximum Flow	976 GPH
Maximum Suction Lift	26 FT.
Maximum Delivery Height	150 FT.
Start Pressure	22 PSI
Stop Pressure	65 PSI
Power Cord Length	6 FT.

Installation

Note: Do not install the pump by suspending it unsupported from its power cord or discharge hose. The pump must be suspended from the handle. Remove Shipping Plug before installation.

Installing

1. Thread the Pressure Control Box onto the water outlet on the top of the Pump.
2. Set the Pump horizontally on a level, solid and dry foundation.
3. Secure the Pump to the mounting surface by installing bolts (not included) through the mounting holes in the base plate.
4. The Pump is supplied with 1" NPT connections to be fitted in the suction and discharge ports. See Figure 1.
5. If the Pump is installed with long pipes (as shown), the pipes must be properly supported on either side of the Pump to prevent straining the connections. If the Pump is drawing water from a well, fit a foot valve (not included) to the end of the suction pipe.

WARNING! Do not allow the Pump to get wet.

Note: The maximum delivery height of the Pump is 32 feet.

Operation

Consider the following points before starting the pump:

a. Verify that the pump rests on the floor.

b. Verify that the delivery pipe is properly connected.

c. Verify that the electrical connection is 120V~, 60 Hz.

d. Verify that the electrical socket is in good condition.

e. Verify that water and moisture cannot get near the power supply socket.

f. Verify that the pump is installed so as to prevent running dry.

g. Note the controls on the Pressure Control Box. This device will protect against run-dry operation, overheating, improper starting, and pressure drops.

Figure 1

See the label from the Pressure Control box in Figure 1 above, for LED indicators and restart button locations described below.

1. Remove the Priming Plug and fill the pump housing with water.

2. Turn on the water supply leading to the Pump. Open one tap at the outlet for air discharge before starting the Pump.

3. Plug in the power cord. The POWER LED will light, indicating that voltage is present. The Pump is ready to operate.

4. Turn the Power Switch on (I).

   NOTE: Once the system pressure raises above the stop pressure, the system will automatically shut off. It will automatically restart once the pressure drops below the start pressure.

5. Once the Pump is running and pumping water, the PUMP-ON LED will light.

6. Automatic Shut off:

   a. If no water is coming into the Pump, the OVERHEAT LED will light and the Pump will shut off. If this happens, turn off the Power Switch and wait for the pump to cool down. Correct the water supply, press the RESET button then turn the Power Switch on to restart the Pump.

   b. If the inside temperature of the Pump exceeds 158° F (70° C), the OVERHEAT LED will light and the Pump will shut off. If this happens, turn off the Power Switch and wait for the Pump to cool down. Then press the RESET button and turn the Power Switch on to restart the Pump.

7. **WARNING!** Do not turn or adjust the Automatic Pressure Controller. This is a pre-set connection and twisting it will cause the Pump to leak.

8. The Pump will stop automatically 10 seconds after the pressure inside the system reaches the stop pressure.

9. When finished using the Pump, turn the Power Switch off (O), unplug the unit.

Maintenance

⚠WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Unplug the Pump from its electrical outlet before performing any inspection, maintenance, or cleaning procedures.

Quarterly Maintenance

The below maintenance must be performed at least once every 3 months under optimal conditions.
For frequent use, or dirty areas, more frequent maintenance is required.

1. Clean sludge and debris from the bottom of the shaft.
2. Rinse the housing off with clean water.
3. Clean fibers from inside the pump housing with a pressure washer (not included).
4. If the pump housing cannot be cleaned from the outside, it must be thoroughly cleaned. **Unplug the power cord before maintenance.** Dismantle the bottom part of the pump as follows:
   a. Remove the Filter from the pump case.
   b. Clean the impeller with clean water.
   c. To prevent damage, do not rest the pump on the impeller or pry against the impeller.
   d. Reassemble in reverse order.

Troubleshooting

Problem	Possible Causes	Possible Solutions
Motor will not run.	1. Fuse is blown or circuit breaker tripped. 2. Power cord not plugged in.	1. Disconnect power and replace fuse or reset circuit breaker. 2. Plug into grounded outlet.
Motor runs hot and overload kicks off; motor does not run and only hum.	1. Voltage is too low. 2. Impeller not moving freely.	1. Check voltage being supplied to pump. 2. Check that impeller moves freely and is not clogged.
Motor runs but no water is being delivered.	1. Improper priming. 2. Clogged water filter. 3. Discharge valve closed. 4. Pipe size too small. 5. Impeller is clogged. 6. Pipes are frozen.	1. Re-prime according to instructions. 2. Stop pump, shut off water, and change filter cartridge. Filter should be installed on discharge side of pump. 3. Open valve. 4. Re-pipe using pipe of the same size as suction and discharge ports on pump. 5. Clean impeller. 6. Thaw pipes.
Pump does not deliver water to full capacity.	1. Corroded pipes. 2. Piping size is too small. 3. Pump not being supplied with enough water. 4. Low voltage.	1. Replace pipes. 2. Re-pipe using pipe the same size as suction and discharge ports on pump. 3. Enlarge inlet pipe; check well pump system. 4. Make sure outlet is 120 volts.
Pump vibrates and/or is noisy.	1. Impeller damaged. 2. Worn motor bearings. 3. Mounting plate or base not rigid. 4. Foreign object in pump.	1. Replace impeller. 2. Replace bearings. 3. Reinforce mounting. 4. Disassemble pump and remove object.

Follow all safety precautions whenever diagnosing or servicing the tool.
Disconnect power supply before service.

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

PARTS LIST

Part	Description	Qty
1	Hexagon Column Head Screw	6
2	Filling Plug	2
3	O-Sealing Ring	2
4	Pump Body	1
5	O-Sealing Ring	1
6	Venturi Tube	1
7	Baffllе	1
8	Diffuser	1
9	Hexangular Nut	1
10	Spring Washer	1
11	Plain Cushion	1
12	Impeller	1
13	Mechanical Seal	1
14	O-Sealing Ring	1
15	Pump Support Cover	1
16	Water Proof Ring	1
17	Pump Support	1
18	Dust Proof Cover	2
19	Ball Bearing	2
20	Hexagon Column Head Screw	2
21	Shaft Key	1
22	Rotor	1
23	Wave Spring	1
24	Motor Stator	1
25	Support	2

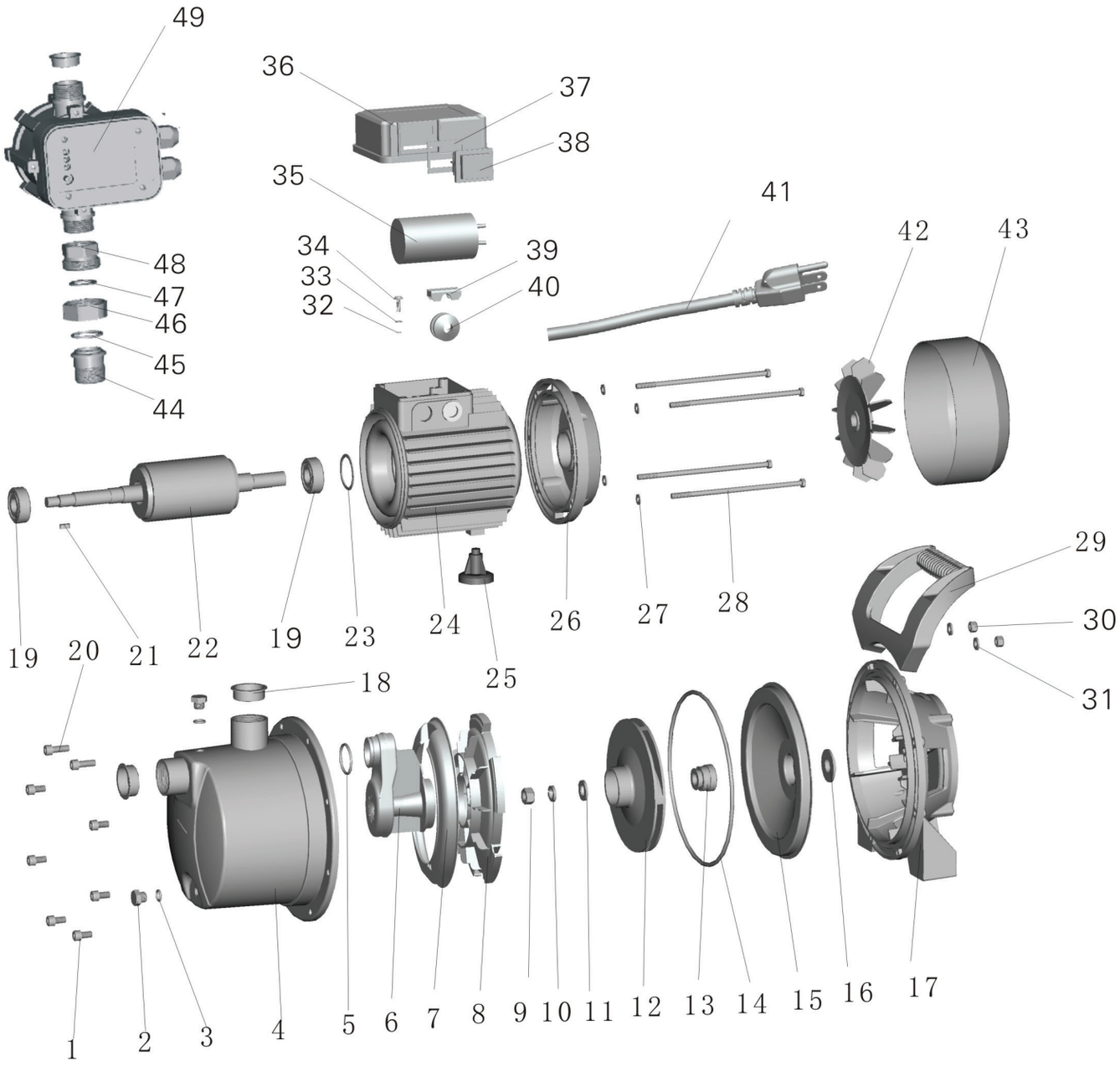
Part	Description	Qty
26	End Plate	1
27	Plain Cushion	4
28	Hexangular Screw	4
29	Handle	1
30	Hexangular Nut	2
31	Plain Cushion	2
32	Fixing Washer	1
33	Spring Washer	1
34	Mechanical Bolt	1
35	Capacitor	1
36	Terminal Box	1
37	Sealing Washer For Switch	1
38	Switch	1
39	Cord Clip	1
40	Cable Holder	1
41	Cable	1
42	Fan	1
43	Fan Cover	1
44	Take Over	1
45	O-Sealing Ring	1
46	Nut	1
47	Rubble Sealing Ring	1
48	Tie-In	1
49	Switch	1

Record Product's Serial Number Here:_____

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

ASSEMBLY DIAGRAM



LIMITED 90 DAY WARRANTY

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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